

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

1 - 6. (Canceled)

7. (Currently Amended) A system that enables the georeferencing of a digital raster map, comprising:

DI a processing platform for executing code capable of georeferencing a digital raster map by associating points on the digital raster map with corresponding points on a ~~previously georeferenced~~ previously georeferenced vector map, wherein the digital raster map and the previously georeferenced vector map are displayed in separate areas of a display and share at least a portion of a geographic area in common; and

a storage platform comprising cache memory for storing at least the digital raster map, the storage platform being coupled to the processing platform:

8. (Canceled)

9. (Previously Presented) A system that enables the georeferencing of a digital raster map, comprising:

a processing platform for executing code capable of georeferencing a digital raster map by associating points on the digital raster map with known reference points in the digital raster map; and

a storage platform comprising non-cache volatile storage for storing at least the digital raster map, the storage platform being coupled to the processing platform.

10 - 16. (Canceled)

17. (Currently Amended) An apparatus that is capable of georeferencing a raster map, comprising:

means for providing for display of a first map in a first area of a display;

means for providing for display of a second map in a second area of the display

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CMT that is separate from the first area of the display, the first map being a digital raster map, and the second map being a previously georeferenced map, the first and second maps covering substantially the same geographic area when they are displayed;

means for receiving an entry identifying a first point pair, one point being on each map;

means for receiving an entry identifying a second point pair, one point being on each map, the corresponding points of the point pairs having approximately the same geographic location on each map;

means for assigning to the points on the first map a longitude coordinate and a latitude coordinate which ~~[[is]]~~ are identical to the longitude coordinate and latitude coordinate of their corresponding points on the second map; and

means for computing a georeferencing function based on the pixel coordinates of the first point of each point pair ~~the points of the first point pair on the first map and the~~

geographic coordinates of the second point of each point pair ~~the points of the second point pair on the second map.~~

18. (Previously Presented) An apparatus as in claim 17, wherein the points of the point pairs comprise marks on the first map at respective locations and marks on the second map at corresponding locations.

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19. (Previously Presented) An apparatus as in claim 17, wherein:
~~more than two point pairs~~ are identified and are used to compute the georeferencing function pursuant to a transformation technique, and
which further comprises means for executing a validation check of the georeferencing function pursuant to a standard deviation technique.

20. (Currently Amended) An apparatus as in claim 19 wherein the means for executing a validation check is further capable of rejecting a point pair when the point pair deviates ~~a predetermined~~ by an amount exceeding ~~from~~ a predetermined standard error.

21. (Currently Amended) An apparatus as in claim 19, wherein:
at least ~~four~~ three points are identified and are used to compute the georeferencing function pursuant to a general linear transformation.

22. (Currently Amended) An apparatus as in claim 19, wherein:
at least ~~three~~ two points are identified and are used to compute the
georeferencing function pursuant to a general rotational linear transformation.
23. (Currently Amended) A system for georeferencing a digital raster
map, comprising:
a processing platform for executing code capable of georeferencing a digital
raster map; and
a storage platform coupled to the processing platform for storing at least a digital
raster map, the storage platform comprising
facilities for providing for display of a first map in a first area of a display;
facilities for providing for display of a second map in a second area of the
display that is separate from the first area of the display, the first map being a digital
raster map, and the second map being a previously georeferenced map, the first and
second maps covering substantially the same geographic area when they are
displayed;
facilities for receiving an entry identifying a first point pair, one point being
on each map;
facilities for receiving an entry identifying a second point pair, one point
being on each map, the corresponding points of the point pairs having ~~approximately~~
the same geographic location on each map;

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facilities for assigning to the points on the first map a longitude coordinate and a latitude coordinate which is identical to the longitude coordinate and latitude coordinate of their corresponding points on the second map; and

facilities for computing a georeferencing function based on the pixel coordinates of the first point of each point pair ~~the points of the first point pair on the first map~~ and the geographic coordinates of the second point of each point pair ~~the points of the second point pair on the second map~~.

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